

Qrystal **N8**

Full Black Mono-Crystalline
420~440W

0~+5W POWER TOLERANCE

High efficiency N - type Double glass black grid solar module ●

Stronger properties, PID resistance, reduced hot spot loss ●

Better temperature coefficient ●

Harsh environmental adaptation ●

Full black module, aesthetic appearance ●

Bifacial module, more power generation ●

25 years material warranty **25**

30 years power linear warranty **30**

108

HALF-CUT
CELLS

182
x183.75
mm

RECTANGULAR
CELLS



*Subject to the terms and conditions contained in the applicable Q-SUN solar Limited Warranty Statement.
25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

22.5%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.4%
0.4% PER YEAR OVER 30 YEARS

Half-Cut Module
LOWER TEMPERATURE COEFFICIENT

Specification

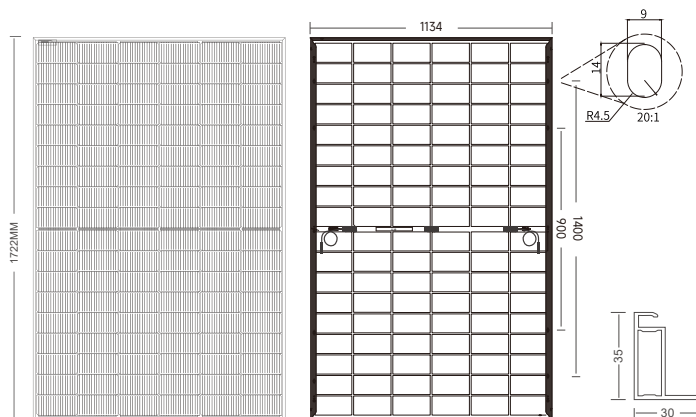
Cell Type	Mono Crystalline 16BB
No. of Cells	108 [2x(6×9)] pcs
Dimension	1722×1134×30mm
Weight	24.6kg±3%
Front Glass	2.0mm
Back Glass	2.0mm
Frame	Black Anodized Aluminum Alloy
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)

Packing Standard

36pcs/pallet

40HQ: 26 pallets/container, 936pcs/container

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Electrical Parameters At STC

Module Type	QN-420HT-6	QN-425HT-6	QN-430HT-6	QN-435HT-6	QN-440HT-6
Peak Power-Pmax (W)	420	425	430	435	440
Open Circuit Voltage-Voc (V)	38.70	38.99	39.29	39.58	39.86
Short Circuit Current-Isc (A)	13.74	13.80	13.85	13.91	13.97
Maximum Power Voltage-Vmp(V)	32.11	32.37	32.63	32.88	33.13
Maximum Power Current-mp(A)	13.08	13.13	13.18	13.23	13.28
Module Efficiency - nm(%)	21.5	21.8	22.0	22.3	22.5

Electrical Parameters At NOCT

Maximum Power-Pmax(W)	318	321	325	329	333
Open Circuit Voltage-Voc (V)	36.76	37.04	37.33	37.60	37.87
Short Circuit Current-Isc (A)	10.99	11.04	11.08	11.13	11.18
Maximum Power Voltage-Vmp (V)	30.34	30.59	30.84	31.07	31.31
Maximum Power Current-Imp (A)	10.46	10.5	10.54	10.58	10.62

Operating Parameters

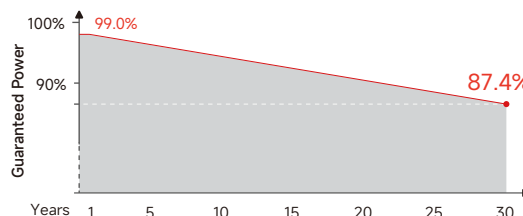
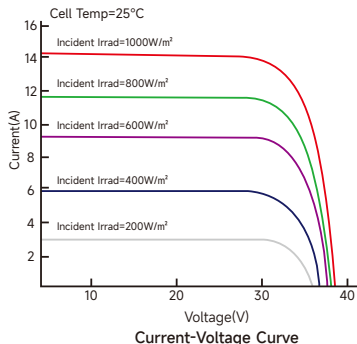
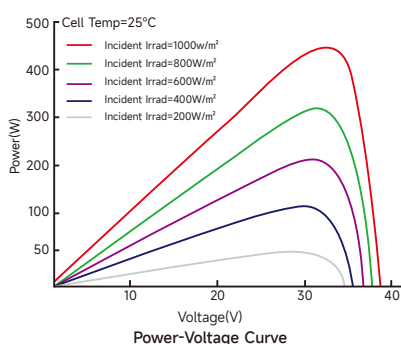
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	42±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Load Capacity

Max Load Front	5400Pa
Max Load Back	2400Pa
Through Hail Testing	25mm Diameter, Impact Speed 23m/s



STC: Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5

NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

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